Claims

[c1]	1.A lenticular bar code image comprising:
	a lenticular lens having a front surface including a plurality of lenticules and a
	back surface opposite the front surface; and
	an image joined to the back surface of the lens, the image including a bar code
	symbol having bars;
	wherein the lenticular lens and the image are in overlay relationship with one
	another such that a lenticular bar code angle is formed between the bars of the
	bar code symbol and the lenticules of the lenticular lens.
[c2]	2.The lenticular bar code image of Claim 1 wherein the lenticular bar code angle
	is in a range from 0 to 360 degrees.
[62]	2. The leasticular has as do to the Color of
[c3]	3. The lenticular bar code image of Claim 1 wherein the lenticular bar code angle
	is in a range from 0 to 90 degrees.
[c4]	4. The lenticular bar code image of Claim 1 wherein the bars of the bar code
	symbol are skewed with respect to the lenticules of the lenticular lens.
[c5]	5.The lenticular bar code image of Claim 1 wherein the bars of the bar code
	symbol are perpendicular to the lenticules of the lenticular lens.
[c6]	6 The lenticular har code image of Claim 1 when it all the College
; ;	6. The lenticular bar code image of Claim 1 wherein the bars of the bar code
	symbol are not aligned with the lenticules of the lenticular lens.
[c7]	7. The lenticular bar code image of Claim 1 wherein the bar code symbol is
	readable through the lenticules of the lenticular lens by a bar code reader.
[c8]	8. The lenticular bar code image of Claim 7 wherein the bar code reader is a
	scanner.
[c9]	O The lenticular has sade image of Claim 7 when the lenticular has sade image.
[CJ]	9. The lenticular bar code image of Claim 7 wherein the bar code reader is one
	of: a contact reader, a moving beam scanner, a fixed beam scanner, and a hand-held scanner.
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[c10]	10.The lenticular bar code image of Claim 7 wherein the bar code symbol has

an ANSI readability grade of at least a C.

flexographic printing, gravure printing, digital printing, inkjet and electronic

deposition.

	[c22]	22. The lenticular bar code image of Claim 1 further comprising a substrate such that the image is disposed between the lenticular lens and the substrate.
	[c23]	23. The lenticular bar code image of Claim 22 further wherein the image is printed to the substrate.
	[c24]	24. The lenticular bar code image of Claim 23 wherein the image is printed onto the substrate by one of: sheet-fed, web-offset, flexographic, gravure, digital printing, inkjet and electronic deposition.
	[c25]	25. The lenticular bar code image of Claim 1 wherein the lens comprises an ultraviolet curable resin and a plastic material selected from the group consisting of: polyester vinyl, polycarbonate, polyvinyl chloride, polyethylene terephthalate, and amorphous polyethylene terephthalate.
	[c26]	26.The lenticular bar code image of Claim 1 wherein the lens comprises an
		ultraviolet curable resin.
	[c27]	27.The lenticular bar code image of Claim 1 wherein the lens comprises
The state of the s		thermoplastic material.
	[c28]	28.The lenticular bar code image of Claim 1 wherein the lens comprises plastic material.
	[c29]	29.The lenticular bar code image of Claim 1 wherein the lens comprises electron beam, curable resin material.
	[c30]	30. The lenticular bar code image of Claim 1 wherein the lenticular bar code image is applied to at least one of: a package, a cup, a container, and a label.
	[c31]	31.A lenticular bar code image comprising: a lenticular lens having a front surface including a plurality of lenticules and a flat back surface opposite the front surface; and an image joined to the flat back surface of the lens, the image including a UPC bar code symbol having bars;
		wherein the lenticular lens and the image are in overlay relationship with one

another such that a lenticular bar code angle of is formed between the bars of the bar code symbol and the lenticules of the lenticular lens such that the bars are substantially perpendicular to the lenticules.

[c32]

32.A lenticular bar code image comprising:

a lenticular lens having a front surface including a plurality of lenticules and a flat back surface opposite the front surface; and

an image lithographically printed directly to the flat back surface of the lens, the image including a UPC bar code symbol having bars;

wherein the lenticular lens and the image are in overlay relationship with one another such that a lenticular bar code angle is formed between the bars of the bar code symbol and the lenticules of the lenticular lens such that the bars are substantially perpendicular to the lenticules; and

wherein the bar code symbol is readable through the lenticules of the lenticular lens by a bar code reader.

[c33]

33.A lenticular bar code image comprising:

a lenticular lens having a front surface including a plurality of lenticules and a flat back surface opposite the front surface; and

an image lithographically printed directly to the flat back surface of the lens, the image including a UPC bar code symbol having bars;

wherein the lenticular lens and the image are in overlay relationship with one another such that a lenticular bar code angle is formed between the bars of the bar code symbol and the lenticules of the lenticular lens such that the bars are substantially perpendicular to the lenticules;

wherein the bar code symbol is readable through the lenticules of the lenticular lens by a bar code reader; and

wherein the bar code symbol remains substantially visible despite any movement of the lenticular bar code image.

[c34]

34.A label comprising:

a label substrate; and

a lenticular bar code image attached to the label substrate, the lenticular bar code image comprising:

a lenticular lens having a front surface including a plurality of lenticules and a flat back surface opposite the front surface; and

an image joined to the flat back surface of the lens, the image including a bar code symbol having bars ;

wherein the bar code symbol is rotated to define a bar code rotation angle between the bars of the bar code symbol and the lenticules of the lenticular lens.

[c35] 35.A container comprising:

a container substrate; and

a lenticular bar code image attached to the container substrate, the lenticular bar code image comprising:

a lenticular lens having a front surface including a plurality of lenticules and a flat back surface opposite the front surface; and

an image joined to the flat back surface of the lens, the image including a bar code symbol having bars ;

wherein the bar code symbol is rotated to define a bar code rotation angle between the bars of the bar code symbol and the lenticules of the lenticular lens.

[c36] 36.A cup comprising:

a cup substrate; and

a lenticular bar code image attached to the cup substrate, the lenticular bar code image comprising:

a lenticular lens having a front surface including a plurality of lenticules and a flat back surface opposite the front surface; and

an image joined to the flat back surface of the lens, the image including a bar code symbol having bars ;

wherein the bar code symbol is rotated to define a bar code rotation angle between the bars of the bar code symbol and the lenticules of the lenticular lens.

[c37]

37.A package comprising:

a package substrate; and

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a lenticular bar code image attached to the package substrate, the lenticular bar code image comprising:

a lenticular lens having a front surface including a plurality of lenticules and a flat back surface opposite the front surface; and

an image joined to the flat back surface of the lens, the image including a bar code symbol having bars;

wherein the bar code symbol is rotated to define a bar code rotation angle between the bars of the bar code symbol and the lenticules of the lenticular lens.

[c38]

38.A method of making a lenticular bar code image, the method comprising: providing a lenticular lens having a front surface including a plurality of lenticules and a flat back surface opposite the front surface; providing a lenticular bar code image, the image including a bar code symbol having bars; and joining the lenticular bar code image to the flat back surface of the lens, thereby

creating a bar code offset angle between the bars of the bar code symbol and

the lenticules of the lenticular lens.

[c39]

39. The method of Claim 38 wherein the lenticules are not parallel to the spaced apart elements of the bar code.

[c40]

40. The method of Claim 38 wherein the lenticules are normal to the spaced apart elements of the bar code.

[c41]

41.A method of reading a lenticular bar code image, the method comprising: providing a lenticular bar code image, the lenticular bar code image comprising: a lenticular lens having a front surface including a plurality of lenticules and a back surface opposite the front surface; and an image joined to the back surface of the lens, the image including a bar code symbol having bars;

wherein the lenticular lens and the image are in overlay relationship with one another such that a lenticular bar code angle is formed between the bars of the bar code symbol and the lenticules of the lenticular lens; and reading the lenticular bar code image through the lenticules of the lenticular

lens with a bar code reader.

[c42] 42.A lenticular image comprising:

a lenticular lens having a front surface including a plurality of lenticules and a flat back surface opposite the front surface; and an image joined to the flat back surface of the lens, the image including a readable product identifier;

wherein the readable product identifier rotated to define a readable product identifier angle between the bars of the bar code symbol and the lenticules of the lenticular lens.